

L2 ANSWER 14 OF 21 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD
AN 1983-770084 [38] WPIDS
PI SU 975596 A 19821123 (198338)* 4p
TI Tank furnace glass melting - uses cyclic switching of transverse burners
and ***pulsed*** gas ***bubbling***
IN LEVITIN, L Y A; PANKOVA, N A; PROTSENKO, L M
PA (ASHI-R) AS USSR HIGH TEMP. PHYS; (GLAR) GLASS RES INST; (TORM-R) TOKMAK
GLASS WORKS
AB SU 975596 A UPAB: 19930925
Improved efficiency of glass melting combined with longer service life of
the furnace and enhanced quality of the product is ensured by the
regenerative tank furnace. It operates with the cross flames, and the
molten charge is subject to ***bubbling*** with a gaseous agent while
the burners are cyclically switched and the intensity of ***bubbling***
is simultaneously adjusted. The cyclic switching of the burners is
carried out while the ***bubbling*** is ***pulsed*** with a
frequency of 5-12 jets per min. in the zone separated from the non-active
burners by a distance equal to 0.1-0.15 of tank furnace width.
The control reduces the intensity of ascending flows of molten glass
in the zone of the active nozzles, and reduces the local effect of the
convective streams. As a result, additional heat is fed under the charge
accelerating the melting and improving the yield. Bul.43/23.11.82
O/O
IC C03B005-16
DC L01
PRAI SU 1981-3286454 19810511